Properties and Possible Applications for Lignin Streams Obtained from Rice Straw Processing

Mussatto, Solange I.

Publication date:
2017

Document Version
Publisher's PDF, also known as Version of record

Properties and Possible Applications for Lignin Streams Obtained from Rice Straw Processing

Short introductive summary:

This study aimed to evaluate the chemical and physical properties of lignin streams recovered from rice straw processing and to study the extraction of antioxidant phenolic compounds from these materials. The evaluated samples included two different cellulignin fermentation residues (FR's) and an acid-precipitated lignin from alkaline-deacetylated black liquor (DBLL). For comparison, a standard lignin sample (Kraft lignin, from Sigma-Aldrich) was also assayed. Besides providing a better understanding about such materials, the obtained results made also possible to propose some potential applications for such lignin samples.

Presenter: **Solange MUSSATTO, Technical University of Denmark, Novo Nordisk Foundation Center for Biosustainability, Kongens Lyngby, DENMARK**

Presenter's biography:

Solange Mussatto is Head of a Research Group at the Technical University of Denmark. She has over 18 years of expertise in the areas of Biomass Pretreatment and Fermentation Technology with focus on the development of processes for a sustainable conversion of biomass into bio-based products.

Biographies and Short introductive summaries are supplied directly by presenters and are published here unedited

Co-authors:

R.C.A. Castro, Department of Biotechnology, Engineering College of Lorena, University of São Paulo, Lorena / SP, BRAZIL
I.S. Ferreira, Department of Biotechnology, Engineering College of Lorena, University of São Paulo, Lorena / SP, BRAZIL
I.C. Roberto, Department of Biotechnology, Engineering College of Lorena, University of São Paulo, Lorena / SP, BRAZIL
S.I. Mussatto, Novo Nordisk Foundation Center for Biosustainability, Technical University of Denmark, Kongens Lyngby, DENMARK

Session reference: 3BV.3.23
Subtopic: 3.6 Biorefineries
Topic: 3. BIOMASS CONVERSION TECHNOLOGIES FOR LIQUID AND GASEOUS FUELS, CHEMICALS AND MATERIALS

EUBCE 2017

25TH EDITION

European Biomass Conference & Exhibition

BOOK OF ABSTRACT SUMMARIES

12 - 15 JUNE

STOCKHOLM - SWEDEN

Stockholmässan

Status of 10:36 am, giu 11, 2017